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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/937,110	01/29/2002	Thomas Boren	514862000100	4682
7590 11/08/2004			EXAMINER	
Michael R Wa Morrison & Foe			MAIER, LEIGH C	
425 Market Street			ART UNIT	PAPER NUMBER
San Francisco,	CA 94105-2482		1623	
			DATE MAILED: 11/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/937,110	BOREN ET AL.				
Office Action Summary	Examiner	Art Unit				
4	Leigh C. Maier	1623				
The MAILING DATE of this communication ap						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on <u>17 August 2004</u> .						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 15-24 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 15-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
	9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/29/04.	4) Interview Summary (F Paper No(s)/Mail Date 5) Notice of Informal Pate)				
S. Palent and Trademark Office	6)					

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DETAILED ACTION

Status of the Claims

Applicant's arguments, see pages 6 and 7 of the response, filed 29 January 2004, with respect to the rejections of claims 14-24 under 35 USC § 112, 1st paragraph have been fully considered and are persuasive. The binding activity of sialyl Lewis^a appears low compared with Lewis^b and sialyl Lewis^x, but it compares favorably with 3'-sialyllactose, which is known to be effective in inhibiting H. pylori. See YAREMA et al (Curr. Opin. Chem. Biol., 1998). Therefore, the rejection has been withdrawn. Any rejection or objection not expressly repeated has been withdrawn. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

Claims 15-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over RENKONEN et al (US 5,965,544) in view of TAYLOR et al (US 6,399,377).

RENKONEN teaches the use of monovalent and multivalent (including dimeric) sialyl Lewis^x for the prevention/treatment of bacterial infections. See abstract. This compound has utility in treating microorganisms that present this oligosaccharide on their surface. See col 37, lines 13-46. The reference is silent regarding *H. pylori*, but teaches the treatment of peptic ulcers. See example 10.

TAYLOR teaches that *H. pylori* causes gastric and duodenal ulcers and that the microorganism expresses sialyl Lewis^x. See col 1, lines 14-22.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to administer mono- or multi-valent sialyl Lewis^x for the treatment of diseases caused by *H. pylori* infection. One of ordinary skill would reasonably expect success in doing so because RENKONEN had taught the utility of treating micro-organisms having this oligosaccharide on the cell surface.

Examiner's hours, phone & fax numbers

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh Maier whose telephone number is (571) 272-0656. The examiner can normally be reached on Tuesday, Wednesday, and Friday 7:00 to 3:30 (ET).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson (571) 272-0661, may be contacted. The fax number for Group 1600, Art Unit 1623 is (703) 872-9306.

Visit the U.S. PTO's site on the World Wide Web at http://www.uspto.gov. This site contains lots of valuable information including the latest PTO fees, downloadable forms, basic search capabilities and much more.

Leigh C. Maier

Patent Examiner

Leigh C. Maier

October 28, 2004